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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/602,853	0/602,853 06/24/2003		Yung-Nien Chang	4-31401A	9278		
29585	7590	03/28/2006		EXAM	EXAMINER		
		IICK GRAY CARY	LONG,	LONG, SCOTT			
153 TOWNS SUITE 800	SEND SI	KEEI	ART UNIT	PAPER NUMBER			
SAN FRAN	CISCO,	CA 94107-1907	1633				
				DATE MAILED: 03/28/200	DATE MAILED: 03/28/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)						
			53	CHANG ET AL.						
	Office Action Summary	Examine	,	Art Unit						
		Scott D. L		1633						
Period fo	The MAILING DATE of this communicator Reply	tion appears on the	cover sheet with the c	correspondence ac	Idress					
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL nsions of time may be available under the provisions of 30 SIX (6) MONTHS from the mailing date of this communic period for reply is specified above, the maximum statuto re to reply within the set or extended period for reply will, reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THE CERT 1.136(a). In no evaluon. The period will apply and we by statute, cause the apply the course the apply statute, cause the apply and we by statute, cause the apply and we have the apply and we have the apply and we have a statute.	HIS COMMUNICATION ent, however, may a reply be tir ill expire SIX (6) MONTHS from dication to become ABANDONE	N. nely filed the mailing date of this o ED (35 U.S.C. § 133).						
Status	·									
1)	Responsive to communication(s) filed o	n								
,	This action is FINAL . 2b)⊠ This action is non-final.									
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is									
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.									
Dispositi	ion of Claims									
4)🛛	4)⊠ Claim(s) <u>38-96</u> is/are pending in the application.									
	4a) Of the above claim(s) is/are withdrawn from consideration.									
5)	5) Claim(s) is/are allowed.									
6)	Claim(s) is/are rejected.									
•	Claim(s) is/are objected to.									
8)⊠	8) Claim(s) 38-96 are subject to restriction and/or election requirement.									
Applicati	ion Papers									
9)	The specification is objected to by the E	xaminer.								
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.										
	Applicant may not request that any objection									
	Replacement drawing sheet(s) including the	· ·								
11)	The oath or declaration is objected to by	the Examiner. N	ote the attached Office	Action or form P	TO-152.					
Priority ι	under 35 U.S.C. § 119									
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 										
2) Notice 3) Information	ot(s) De of References Cited (PTO-892) De of Draftsperson's Patent Drawing Review (PTO- mation Disclosure Statement(s) (PTO-1449 or PTO- Der No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	ate	O-152)					

DETAILED ACTION

Election/Restrictions

- 1. Claims 38, 39, 43, 44, 45, 46, 47, 48, 49, 51, 52, 53, 57, 59, 61, 62, 63, 64, 65, 66, 74, 75, 83, 84, 86, 87, 90, 91, 93, and 94 are generic to a plurality of disclosed patentably distinct species comprising:
 - A. A specific species of tissue specific enhancers selected from a list consisting of DF3, breast cancer specific enhancer, viral enhancer, steroid receptor enhancer, as recited in claims 41,55.
 - B. A specific species of tissue specific promoter selected from a list consisting of MUC1/DF3 promoter, α-fetoprotein promoter, erb-B2 promoter, surfactant promoter, Thymidine Kinase promoter, p21 promoter, cyclin promoter, as recited in claims 40, 54, 67, 76, 85,92.
 - C. A specific species of replication essential transcription factor gene
 selected from a list consisting of E1a, E1b, E2, E4, as recited in claims 60,
 68, 69, 70, 71, 72, 77, 78, 79, 80, and 81.
 - D. A specific species of coding sequence selected from a list consisting of
 Thymidine Kinase, Cytosine Deaminase, Purine Nucleoside
 Phosphorylase, as recited in claims 42, 50, 56, 58, 73, 82, 88, 89, 95, and
 96.

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2. Applicant is further required under 35 U.S.C. 121 to elect a single species from each of the categories listed above: A (tissue specific enhancer), B (tissue specific promoter), C (transcription factors), and D (coding sequences), even though this requirement is traversed. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

3. The species are distinct, each from the other because of the following reasons:

Adenoviral virions or cells comprising virions recited in species A, B, C, and D, above, are directed to products that are functionally distinct and capable of separate use. Tissue specific enhancers function to aid DNA transcription through the binding of transcription factors. However, the enhancer DNA, itself, is never translated into proteins. An enhancer without a promoter could not cause DNA transcription. Tissue specific promoters are DNA sequences that are absolutely necessary for DNA transcription in specific tissues. Their DNA is distinct from the other species, listed in A,

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C, or D. Transcription factor gene products are proteins that control the transcription of a downstream gene, after binding DNA enhancer or promoter sequences. The coding sequences, from D, above, are translated into proteins that can perform a specific enzymatic function.

- 4. Because these species are structurally distinct for the reasons given above, and because a search of one does not necessarily overlap with that of another species, it would be unduly burdensome for the examiner to search and examine all of the subject matter being sought in the presently pending claims, and thus, restriction/species election for examination purposes as indicated is proper.
- 5. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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Applicant is advised that the response for this requirement to be complete must include an election of the invention to be examined even though the requirement may be traversed.

- 6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Long whose telephone number (571) 272-0948. The examiner can normally be reached Monday through Friday, between 9:00 am-5:00 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave T. Nguyen can be reached on (571) 272-0731. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

For all other customer support, please call the USPTO Call Center (UCC) at (800) 786-9199.

Scott Long. Examiner, USPTO, AU 1633

> DAVE TRONG NGUYEN SUPERVISORY PATENT EXAMINER